

Claremont 27691

Route 12A over the Sugar River



Introductions

- **David Scott, PE**
 - NHDOT Bureau of Bridge Design
 - Design Chief
- **Jason Tremblay, PE**
 - NHDOT Bureau of Bridge Design
 - Senior Project Engineer
- **Anthony Weatherbee, PE, SE**
 - NHDOT Bureau of Bridge Design
 - Project Engineer
- **Nathan L Rosencranz, PE, SE**
 - TranSystems Corp.
 - Project Consultant

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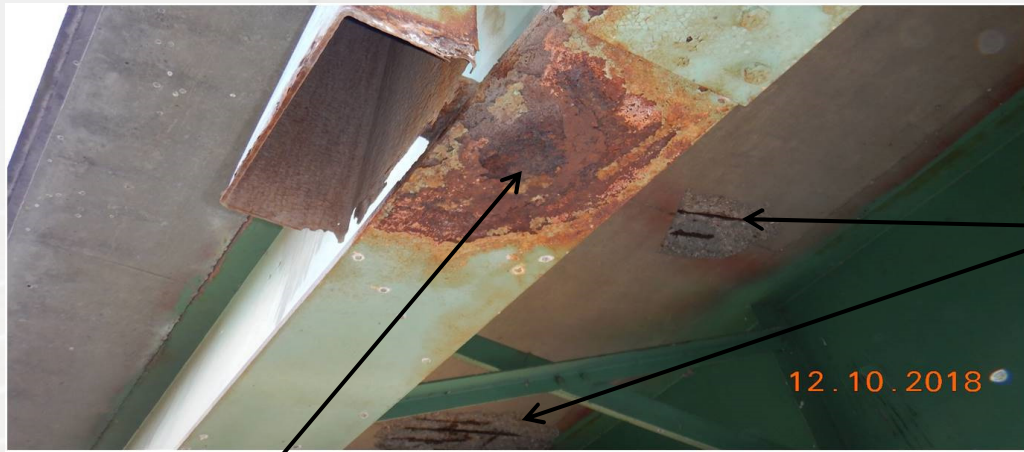


**Bridge Rehabilitation – Route 12A over the Sugar River
130 feet south of intersection with Route 12**

Project Purpose

- Bridge Rehabilitation
 - Extends the useful life of the bridge
 - Removes the bridge from the State Bridge Red List (currently no. 85)

Project Need



**Spalled Deck
w/ Exposed
Rebar**

**Heavy Rust on Bottom
Flange of Girder**

**Repair Patch
Exhibiting
Delamination**



Project Need



**Heavy Rust on
Bottom Flange of
Girder**

**Heavy Rust on
Bearing**



Project Need



**Delamination
and Spalling on
North Abutment**

**Tree Debris
at the Pier**



Bridge Information

- Three span continuous
- 276 foot Welded Steel Plate Girder
- Built in 1967 and rehabilitated in 1991
- 32'-8" wide
- 30 foot rail to rail and 28 foot curb to curb
- Bridge is coded as Scour Critical

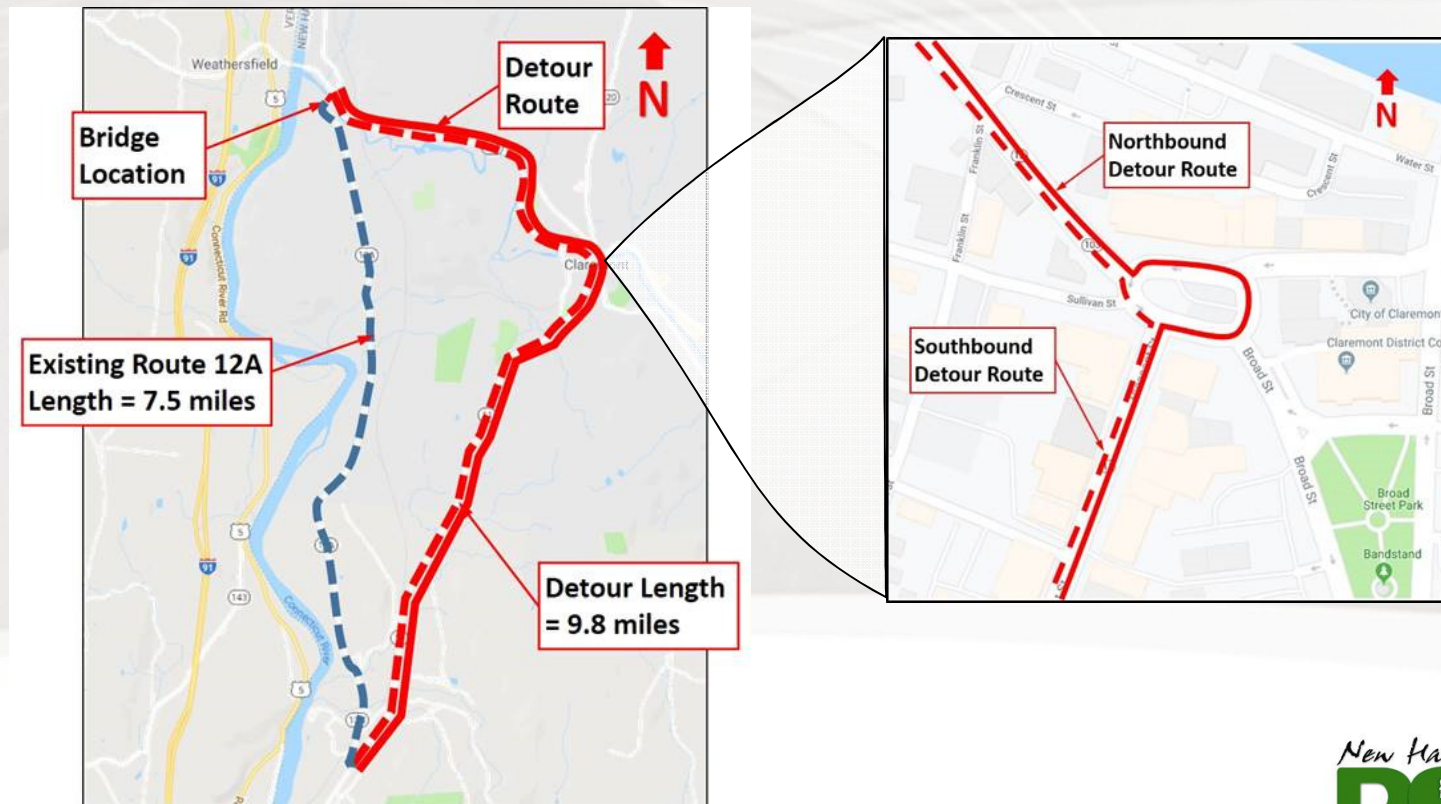
Project Scope

- Replace bridge deck
- Replace expansion joint
- Replace bearings
- Repaint superstructure
- Replace bridge and approach rail
- Install scour countermeasures

Traffic Control

Alternative 1

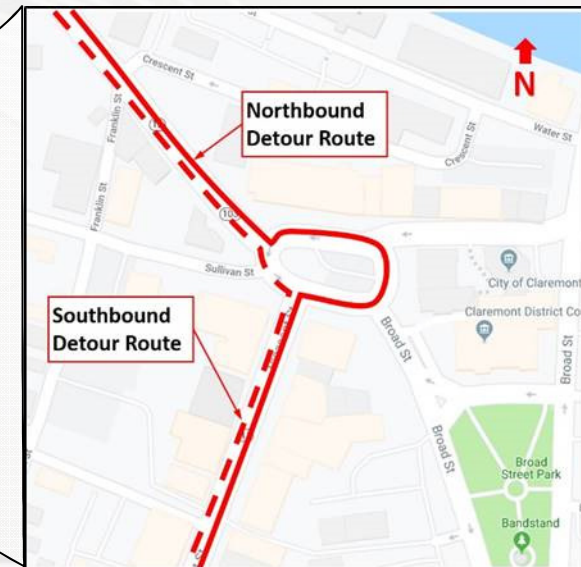
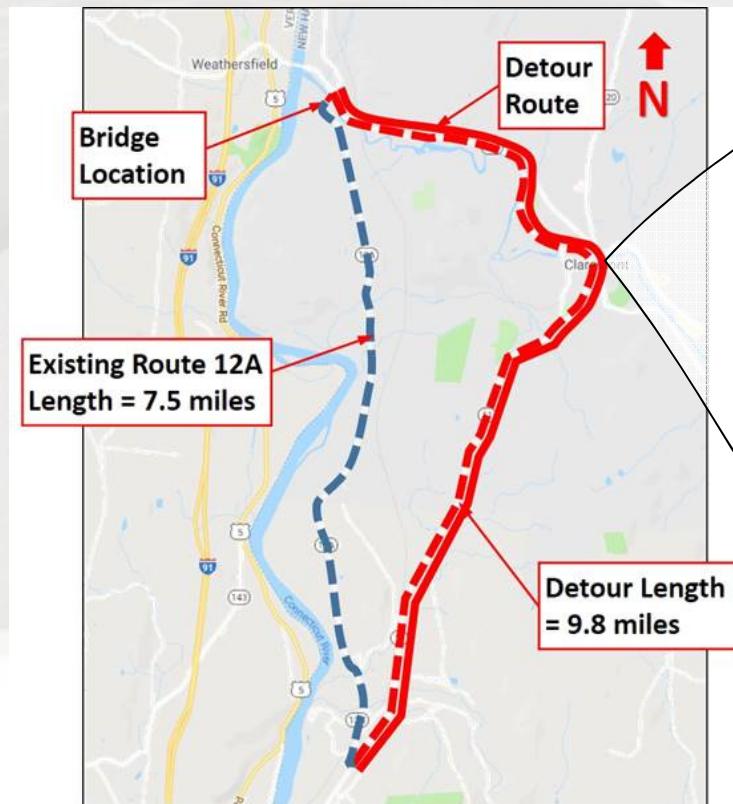
- Full bridge closure (Northbound and Southbound detour)
- Conventional construction techniques
- Total detour length 17.3 miles



Traffic Control

Alternative 2

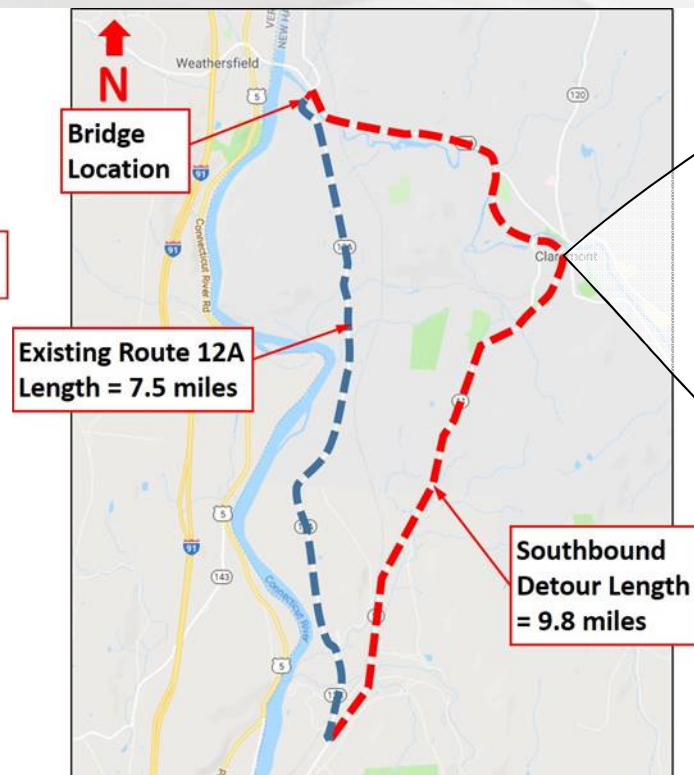
- Full bridge closure (Northbound and Southbound detour)
- Accelerated bridge construction techniques
- Total detour length 17.3 miles



Traffic Control

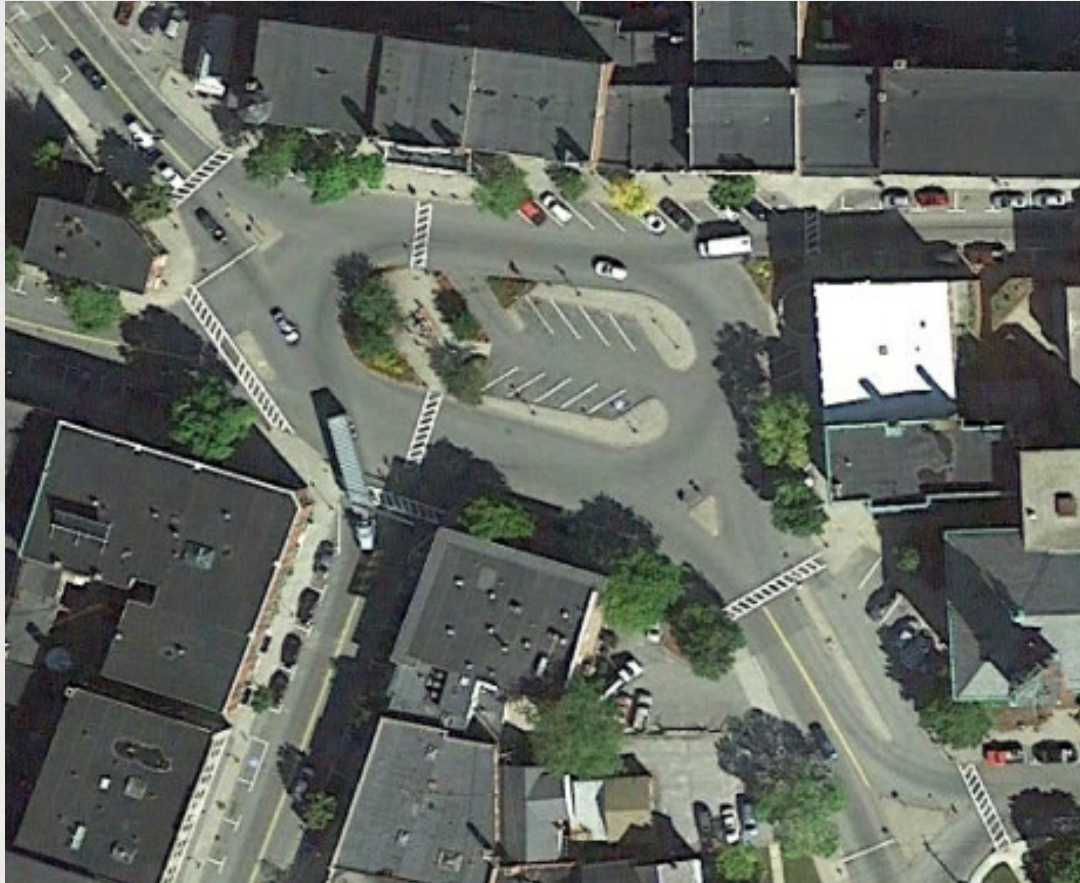
Alternative 3

- Partial bridge closure (Southbound detour)
- Phased construction
- Requires Southbound traffic to travel through downtown rotary
- Total detour length 17.3 miles



Traffic Control

Alternative 3 – Truck Traffic

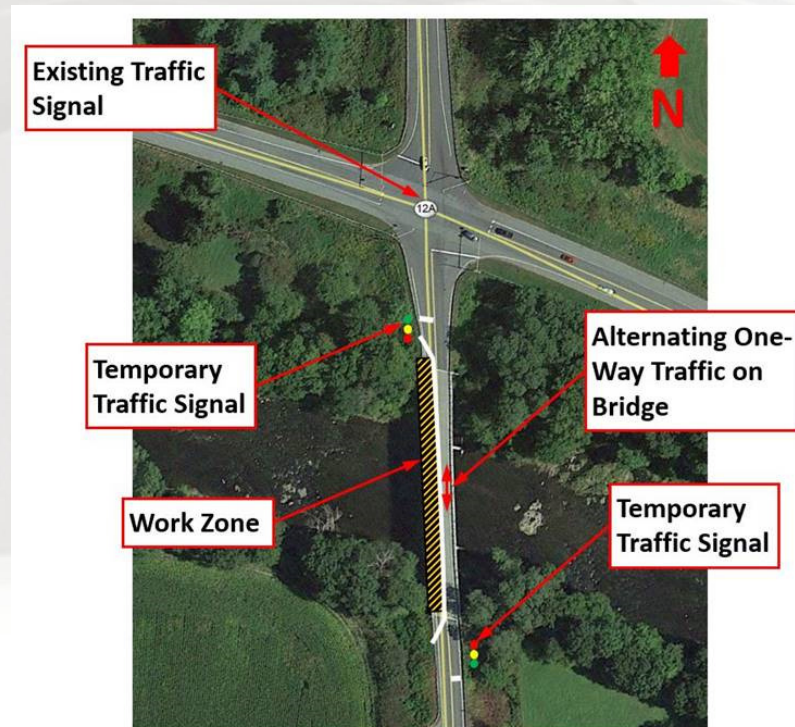


Truck going South through detour at rotary

Traffic Control

Alternative 4

- Alternating one-way traffic
- Phased construction
- Temporary traffic signals
- Only 70' between Route 12 intersection and temporary signal



Ongoing Considerations

- Superstructure replacement
- Pavement treatment

Anticipated Project Schedules

Short term-

- Claremont Traffic Control Advisory Committee
October 30
- Claremont City Council
November 13

Long term-

- Advertise for bids – January 11, 2022
- Construction:
 - April to September 2022
 - 3 months per phase
- Completion – October 2022

Discussion Topics

- Traffic Impacts (Phased or Full Closure & Detour)
- Pedestrian or Bike Usage
- Intersection/rotary Concerns
- Safety Concerns with Existing Situation
- Special Town Events
- Abutters
- Emergency Response Routes
- School Schedule and Bus Routes
- Preferred Construction Timing

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Thank You.
Questions?